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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Apr 08	"Ask CAS" for self-help around the clock
NEWS	3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS	4	Apr 09	ZDB will be removed from STN
NEWS	5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS	6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS	7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS	8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS	9	Jun 03	New e-mail delivery for search results now available
NEWS	10	Jun 10	MEDLINE Reload
NEWS	11	Jun 10	PCTFULL has been reloaded
NEWS	12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS	13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS	14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS	15	Jul 30	NETFIRST to be removed from STN
NEWS	16	Aug 08	CANCERLIT reload
NEWS	17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	18	Aug 08	NTIS has been reloaded and enhanced
NEWS	19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS	21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS	22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	23	Sep 03	JAPIO has been reloaded and enhanced
NEWS	24	Sep 16	Experimental properties added to the REGISTRY file
NEWS	25	Sep 16	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS	26	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	27	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	28	Oct 21	EVENTLINE has been reloaded
NEWS	29	Oct 24	BEILSTEIN adds new search fields
NEWS	30	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	31	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS	32	Nov 18	DKILIT has been renamed APOLLIT
NEWS	33	Nov 25	More calculated properties added to REGISTRY
NEWS	34	Dec 02	TIBKAT will be removed from STN
NEWS	35	Dec 04	CSA files on STN
NEWS	36	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	37	Dec 17	TOXCENTER enhanced with additional content
NEWS	38	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	39	Dec 30	ISMEC no longer available
NEWS EXPRESS			January 6 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS INTER			General Internet Information

NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:22:03 ON 09 JAN 2003

=> file medline biosis caplus embase

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FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 12:22:26 ON 09 JAN 2003

FILE 'BIOSIS' ENTERED AT 12:22:26 ON 09 JAN 2003

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FILE 'CAPLUS' ENTERED AT 12:22:26 ON 09 JAN 2003

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FILE 'EMBASE' ENTERED AT 12:22:26 ON 09 JAN 2003

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=> s nucleic (p)duplex(p)temperature

L1 211 NUCLEIC (P) DUPLEX(P) TEMPERATURE

=> s l1(p)below(p)melting

L2 6 L1(P) BELOW(P) MELTING

=> duplicate remove l2

DUPLICATE PREFERENCE IS 'MEDLINE, BIOSIS, EMBASE'

KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n

PROCESSING COMPLETED FOR L2

L3 2 DUPLICATE REMOVE L2 (4 DUPLICATES REMOVED)

=> d his

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FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE' ENTERED AT 12:22:26 ON 09 JAN 2003

L1 211 S NUCLEIC (P)DUPLEX(P)TEMPERATURE

L2 6 S L1(P)BELOW(P)MELTING

L3 2 DUPLICATE REMOVE L2 (4 DUPLICATES REMOVED)

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Terms	Documents
L2 same 35	2

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JPO Abstracts Database	
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L6

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DATE: Thursday, January 09, 2003 [Printable Copy](#) [Create Case](#)

Set Name Query
side by side

Hit Count Set Name
result set

DB=USPT; PLUR=YES; OP=OR

<u>L6</u>	L2 same 35	2	<u>L6</u>
<u>L5</u>	L2 same 48	1	<u>L5</u>
<u>L4</u>	L2 same 40	0	<u>L4</u>
<u>L3</u>	L2 same 40 same 48	0	<u>L3</u>
<u>L2</u>	L1 same below same melting	140	<u>L2</u>
<u>L1</u>	nucleic same duplex same temperature	1466	<u>L1</u>

END OF SEARCH HISTORY

L3 ANSWER 1 OF 2 MEDLINE DUPLICATE 1
 AN 97465962 MEDLINE
 DN 97465962 PubMed ID: 9321670
 TI A fiber optic biosensor for fluorimetric detection of triple-helical DNA.
 AU Uddin A H; Piunno P A; Hudson R H; Damha M J; Krull U J
 CS Department of Chemistry, Otto Maas Chemistry Building, McGill University,
 Montreal, Quebec H3A 2K6, Canada.
 SO NUCLEIC ACIDS RESEARCH, (1997 Oct 15) 25 (20) 4139-46.
 Journal code: 0411011. ISSN: 0305-1048.
 CY ENGLAND: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199712
 ED Entered STN: 19980109
 Last Updated on STN: 19990129
 Entered Medline: 19971202
 AB A fiber optic biosensor was used for the fluorimetric detection of T/AT
 triple-helical DNA formation. The surfaces of two sets of fused silica
 optical fibers were functionalized with hexaethylene oxide linkers from
 which decaadenylic acid oligonucleotides were grown in the 3'to 5'and 5'to
 3'direction, respectively, using a DNA synthesizer. Fluorescence studies
 of hybridization showed unequivocal hybridization between oligomers
 immobilized on the fibers and complementary oligonucleotides from the
 solution phase, as detected by fluorescence from intercalated ethidium
 bromide. The complementary oligonucleotide, dT10, which was expected to
 Watson-Crick hybridize upon cooling the system **below** the
duplex melting temperature (T_m), provided a
 fluorescence intensity with a negative **temperature** coefficient.
 Upon further cooling, to the point where the pyrimidine motif T*AT
 triple-helix formation occurred, a fluorescence intensity change with a
 positive **temperature** coefficient was observed. The
 reverse-Hoogsteen T.AT triplex, which is known to form with branched
nucleic acids, provided a corresponding decrease in fluorescence
 intensity with decreasing **temperature**. Full analytical signal
 evolution was attainable in minutes.

L3 ANSWER 2 OF 2 MEDLINE DUPLICATE 2
 AN 92253408 MEDLINE
 DN 92253408 PubMed ID: 1579489
 TI Properties of pseudouridine N1 imino protons located in the major groove
 of an A-form RNA duplex.
 AU Hall K B; McLaughlin L W
 CS Department of Biochemistry and Molecular Biophysics, Washington University
 School of Medicine, St Louis, MO 63110.
 NC GM37065 (NIGMS)
 SO NUCLEIC ACIDS RESEARCH, (1992 Apr 25) 20 (8) 1883-9.
 Journal code: 0411011. ISSN: 0305-1048.
 CY ENGLAND: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199206
 ED Entered STN: 19920619
 Last Updated on STN: 19970203
 Entered Medline: 19920605
 AB The exchangeable N1 imino protons of two pseudouridine (psi) bases located
 at adjacent internal positions within an undecamer RNA **duplex**
 (5'AUAC psi psi ACCUG/3'UAUGA AUGGUC) can report on the environment of the
 major groove of an A-form double-stranded **nucleic** acid. The psi
 N1 imino protons of these residues (which are not involved in interstrand
 Watson-Crick hydrogen bonding) are protected from chemical exchange with
 the solvent water and thus are observable in the proton NMR spectrum in

H2O (1). These protons will exchange readily at increased pH values or upon thermal denaturation of the **duplex**. The longitudinal (T1) relaxation times of the psi N1 imino protons in 100 mM NaCl or in 10 mM MgCl2 and 100 mM NaCl are approximately two-fold faster than those of the psi N3 imino protons which are involved in Watson-Crick base pairing. With the addition of spermidine, the psi N1 imino protons become readily exchangeable at a **temperature** some 20 degrees C **below** the **melting temperature** of the **duplex**.

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